

CLAIMS:

1. An ultrasonic diagnostic apparatus for transmitting ultrasonic signals from ultrasonic transducers toward a subject to be examined, and receiving reflected waves of said ultrasonic signals for display, comprising:

an analog switch for switching ultrasonic transducers for transmission of said ultrasonic signals and reception of said reflected waves;

a transmitter power source for supplying a high voltage to a transmitter circuit for causing said ultrasonic transducers to drive said ultrasonic signals; and

a bias power source generating circuit for generating a bias power source for said analog switch from said transmitter power source.

2. The ultrasonic diagnostic apparatus of claim 1, wherein

said bias power source generating circuit comprises a positive bias power source generating circuit for outputting a voltage value higher than a positive voltage value of said transmitter power source, and a negative bias power source generating circuit for outputting a voltage lower than a negative voltage value of said transmitter power source.

3. The ultrasonic diagnostic apparatus of claim 1, wherein a circuit for generating said bias power source from said transmitter power source is a charge pump.

4. The ultrasonic diagnostic apparatus of claim 1, wherein said apparatus is a transmission voltage control circuit for variably controlling the voltage value of said transmitter power source.

-16-

5. The ultrasonic diagnostic apparatus of claim 3 or 4, wherein a driving circuit for said charge pump shares a driving circuit in said transmitter power source.

6. The ultrasonic diagnostic apparatus of claim 1, wherein said transmitter power source comprises a stabilizing power source circuit for decreasing and stabilizing the positive voltage value supplied to said transmitter circuit, and a stabilizing power source circuit for increasing and stabilizing the negative voltage value supplied to said transmitter circuit.